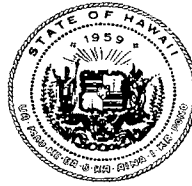


LINDA LINGLE
GOVERNOR



CHAD K. TANIGUCHI
EXECUTIVE DIRECTOR

STATE OF HAWAII
DEPARTMENT OF HUMAN SERVICES
HAWAII PUBLIC HOUSING AUTHORITY
1002 NORTH SCHOOL STREET
P.O. BOX 17907
Honolulu, Hawaii 96817

BARBARA E. ARASHIRO
EXECUTIVE ASSISTANT

ADDENDUM NO. 1

TO THE
PLANS AND SPECIFICATIONS
FOR
FURNISHING LABOR AND MATERIALS
REQUIRED FOR

**SEWAGE TREATMENT PLANT IMPROVEMENTS
AT
KUPUNA HOME O`WAIALUA**

HA 1050

67-088 GOODALE AVENUE
WAIALUA, OAHU, HAWAII

TAX MAP KEY NO: (1) 6-7-016: 028

HPHA JOB NO. 07-046-150-S

IFB-CMS-2009-13

January 11, 2010

The items listed hereinafter are hereby made a part of the contract for the above project and shall govern the work, taking precedence over previously issued plans and specifications governing the items mentioned.

A. SPECIFICATIONS

1. TABLE OF CONTENTS

- a. Delete the Table of Contents in its entirety and replace with the attached Revised Table of Contents (**Attachment A**).

2. CONTRACTOR'S/VENDOR'S NOTICE OF INTENT TO BID

- a. Insert the attached Contractor's/Vendor's Notice of Intent to Bid (**Attachment B**).

B. DRAWINGS

Portions of the following drawings have been revised. The revisions are shown on the attached exhibits list below:

<u>Exhibit Number</u>	<u>Reference Drawing</u>	<u>Description</u>
1C	C-2	Revised Leaching Bed Inverts, Notes, and Root Barrier Installation
2C	C-2	Revised Fencing Improvements
3C	C-9	Revised Details

C. MINUTES OF PRE-BID MEETING

The attached Minutes of Pre-bid Meeting are hereby incorporated (**Attachment C**) and made part of the contract for the above Proposal documents and shall be used to clarify and/or amend the previously issued drawings and specifications effective the date of this addendum.

D. QUESTIONS SUBMITTED AFTER PRE-BID MEETING

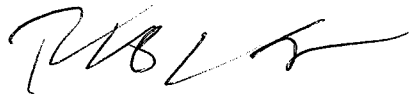
Questions submitted after the Pre-Bid Meeting are attached (**Attachment D**) and hereby incorporated and made part of the contract for the above Proposal documents and shall be used to clarify and/or amend the previously issued drawings and specifications effective the date of this addendum.

E. SUBSTITUTION OF MATERIALS AND EQUIPMENT

1. International Wastewater Technologies, Inc., January 4, 2010

Section/ Item	Specified Brand	Substitute or Alternate Brand	Variant Features	Approval/ Denial
C-6	Jensen Precast Holding Tank and Cover	Xerxes Fiberglass Wet Well	FRP Fiberglass	Denied

Approved by:



Rick T. Sogawa
Acting Procurement Officer



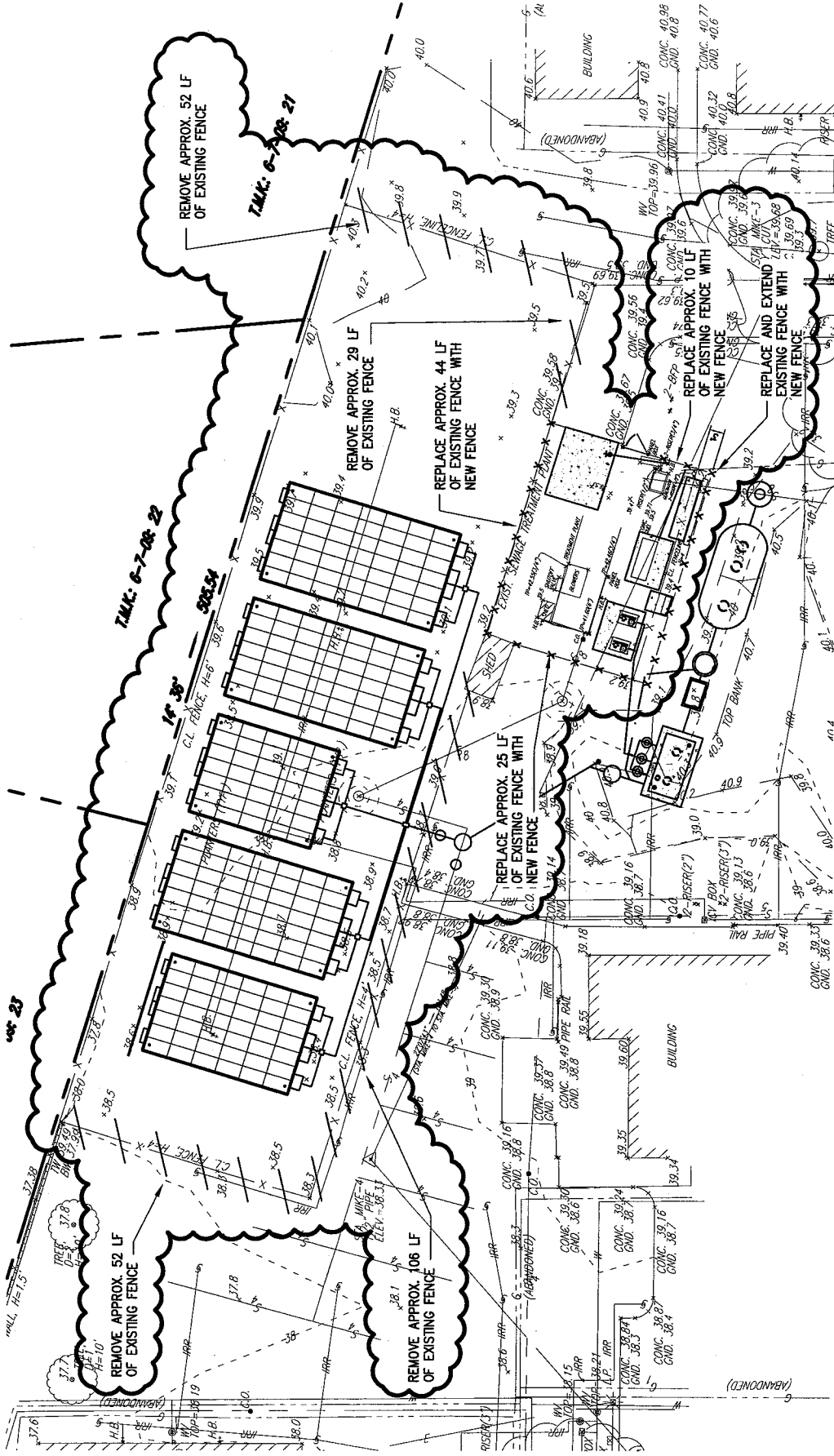
1. THE COMBINED NEW LEACHING BED AREA SHALL NOT BE LESS THAN 3,369 SF

2. FOR LEACHING BED DESIGN DATA, SEE SHT. T-3
3. ALL LEACH FIELD DISTRIBUTION PIPING SHALL BE 4" PVC SENDER PIPE AND SHALL BE LAID WITH SLOPES SHOWN ON PLANS. ALL LEACH FIELD HEADER PIPING SHALL BE 4" PVC SENDER PIPE AND SHALL BE LAID LEVEL.
FOR LEACHING BED, PIPING, AND INSPECTION PORT DET., SEE (T-1) (T-2) (T-3)
4. THE DISTRIBUTION BOX DROP FROM INLET TO OUTLET SHALL NOT BE MORE THAN 2'.
5. ALL PORTIONS OF THE LEACH BEDS INCLUDING DISTRIBUTION BOXES, FILTER FABRICS, PIPING AND CHAMBERS SHALL MAINTAIN A 5' CLEARANCE FROM THE PROPERTY LINE.
6. ALL PORTIONS OF THE LEACH BEDS INCLUDING DISTRIBUTION BOXES, FILTER FABRICS, PIPING AND CHAMBERS SHALL MAINTAIN A 10' CLEARANCE FROM ALL TREES.

DESCRIPTION	REVISSED	LEACHING BED INVERTS & NOTES AND ROOT BARRIER INSTALLATION

C-2

EXHIBIT 1C



SCALE: 1" = 30'

JOB NO: 07-046-1508

REFERENCE SHEET:
C-2

SEWAGE TREATMENT PLANT IMPROVEMENTS
AT KUPUNA HOME O'WAILUA

EXHIBIT 2C

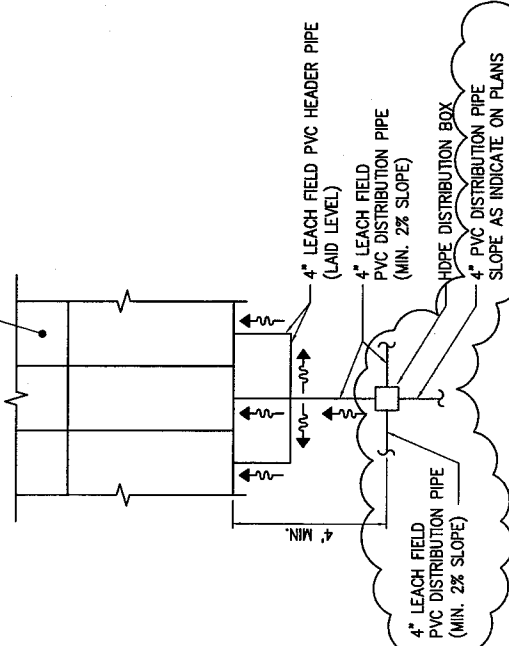
DATE:
1/10/10

REVISED FENCING IMPROVEMENTS

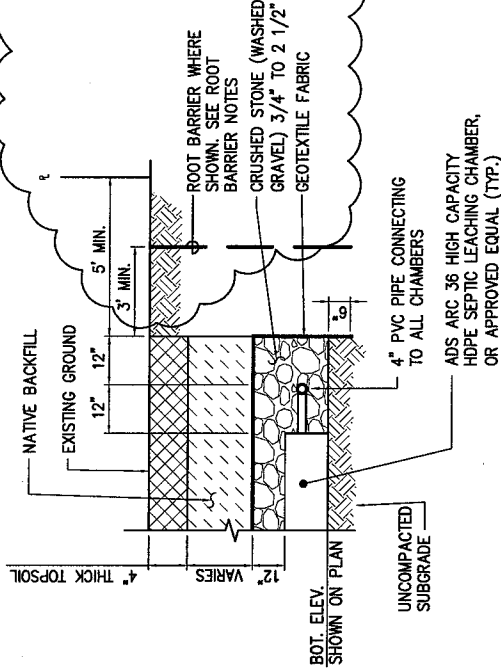
2 OF 3

DESCRIPTION

ADS ARC 36 HIGH CAPACITY
HDPE SEPTIC LEACHING CHAMBER,
OR APPROVED EQUAL (TYP.)



2 LEACHING BED PLAN
C-9 NOT TO SCALE



ROOT BARRIER NOTES:

1. ROOT BARRIER SHALL BE TY-AR BIO-BARRIER OR APPROVED EQUAL, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND AS SHOWN IN THE PLANS. THE ROOT BARRIER FABRIC SHALL BE DELIVERED TO THE SITE IN SEALED CARTONS, STORED OUT OF DIRECT SUNLIGHT, AND INSTALLED AS SOON AS POSSIBLE AFTER THE CARTON IS OPENED.
2. FABRIC OVERLAP SHALL BE MIN. 3". USE SPIKES OR SOD STAPLES TO HOLD THE FABRIC IN PLACE.

3 LEACHING BED END DETAIL
C-9 NOT TO SCALE

SCALE: NO SCALE	REFERENCE SHEET:	SEWAGE TREATMENT PLANT IMPROVEMENTS AT KUPUNA HOME O'WAIALUA
JOB NO: 07-046-1505	C-9	
EXHIBIT 3C	DATE:	REVISED DETAILS
3 OF _3_	1/11/10	
DESCRIPTION:		

Attachment A
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END OF SECTION

Attachment B

Contractor's/Vendor's Notice of Intent to Bid

CONTRACTOR'S/VENDOR'S NOTICE OF INTENT TO BID

Date: _____

Hawaii Public Housing Authority
1002 North School Street
Honolulu, Hawaii 96817

Attention:

In accordance with the provisions of Section 103D-310, Hawaii Revised Statutes and Hawaii

Administrative Rules 3-122-108, it is the intent of the undersigned to bid on

HPHA Job No. 07-046-150-S

STP IMPROVEMENTS AT KUPUNA HOME O'WAIALUA

for which bids will be opened on _____.

(Name of Firm)

(Contractor's License No.)

(Address)

(Hawaii General Excise Tax No.)

(City, State)

(Zip Code)

(Telephone/Fax No.)

Sincerely yours,

Signature

Print Name and Title

END NO. 1

Date _____

The Hawaii Public Housing Authority acknowledges your Notice of Intent to Bid on HPHA Job No.
07-046-150-S this date.

Sincerely,

Procurement Officer

Attachment C

Minutes of Pre-Bid Meeting

MEETING MINUTES

16901
PreBid Meeting

January 6, 2010
10:00 a.m.

Project: Sewage Treatment Plant Improvements at Kupuna Home O'Waiialua

Participants: See Sign-In Sheet (Attached-Private)

Purpose: Contractor PreBid Meeting

Meeting Time: 10:00 AM

I. Welcome & Introduction per agenda (Attached).

1. HPHA-Introduction of HPHA project team and TLCG design team.
2. Introduction by attendees.

II. Bid Procedure per agenda (Attached).

1. TLCG-Bid questions due 14 calendar days prior to bid opening (**January 7, 2010**) to Mitchell Kawamura of Hawaii Public Housing Authority (HPHA).
2. TLCG-Substitution requests due 14 calendar days prior to bid opening (**January 7, 2010**) to Mitchell Kawamura of HPHA.
3. TLCG-Notice of Intent of Bid due 10 calendar days prior to bid opening (**January 11, 2010**).
4. TLCG-Addendums will be issued by 10 calendar days prior to bid opening (**January 11, 2010**).

III. Site Access per agenda (Attached)

1. TLCG-Access shown on design drawings to be Parking Lot "A" area. After contract awarded, contractor may discuss other access area options with HPHA and site manager Lui Faleafine. HPHA-Site manager will assign parking stalls to contractor prior to start of construction.
2. TLCG-Storage area limited to on-site project area.
3. HPHA-Be aware on underground utilities and recently installed gas lines.

IV. Design Issues per agenda (Attached)

1. TLCG-Contract requires development of a service manual and provide training.
2. TLCG-Attention to close proximity of residential neighbors and onsite residents. HPHA-Residents and neighbors should be notified of construction activity.
3. HPHA-Daily start time should be no earlier than 7:30 AM.
4. TLCG-Exist STP to remain online at all times. No disruption to service.
5. TLCG-Shall be no design deviation for Injection Well Abandonment.

V. Clarifications

1. Table of Contents and Intent to Bid form will be issued as addendum.
2. Notes of Contract and Procurement Office -
 - A. Check all math on bid form.

MEETING MINUTES

16901
PreBid Meeting

January 6, 2010
10:00 a.m.

- B. Don't leave any lines blank on bid.
- C. Make sure proper tax clearances are provided.
- D. Make sure company name on all forms match.
- E. Make sure Certificate of Good Standing, Bonds, and Licenses are updated.
- F. Make sure Insurance Certificate is up to date and provide a minimal of 30 day notice of cancellation.
- G. Do not submit bid with additional conditions.

VI. Questions and Discussions:

1. Will any improvements need to be performed on the existing gas tank?

Response: The new generator tie-in will occur inside the fence of the existing sewage treatment plant. No work needs to be performed on the existing gas tank.

2. How will new sewage treatment plant tie into existing sewer system?

Response: A new sewer manhole will be constructed over existing sewer line. The new sewer manhole will be channelized to flow to new treatment system.

3. Are there other pump stations on-site other than the one next to the existing sewage treatment plant?

Response: No.

4. Is there an aerobic treatment system manufacturer that was worked with during design of the new sewage treatment plant?

Response: TLCG consulted and based design of aerobic treatment system with Smith & Loveless. The local representative is Mack McPherson of Hawaii Engineering Services.

5. What is the depth of the existing sewage treatment plant?

Response: The existing sewage treatment plant is approximately 11' from the top (above-ground) to the bottom of the tank (underground).

6. Where were soil borings taken during the design?

Response: Boring locations are shown on Drawing C-2. Boring B1 was approximately 15 feet deep and boring B2 was approximately 25 feet deep. No groundwater was encountered at the time of the investigation.

7. Were percolation tests performed in the design of the new leach field?

Response: Percolation tests were performed on the existing leach field.

MEETING MINUTES

16901
PreBid Meeting

January 6, 2010
10:00 a.m.

8. What are the dimensions of the existing injection wells?

Response: Injection wells are 8' in diameter and approximately 30' deep each.

9. Will fencing around the existing garden area be removed or remain.

Response: Existing fencing around garden shall be removed per Addendum No. 1.

10. Suggest installing gravel under new leaching beds to prevent grease from plugging new leaching beds.

Response: Will evaluate and issue addendum if necessary.

11. Suggest installing root barrier around the northeaster portion of the new leach field adjacent to TMK: 6-7-009: 023 as neighbor has large tree that is not shown in the design drawings.

Response: Will evaluate and issue addendum if necessary.

12. Will additional fencing need to be installed?

Response: Removal and installation of new fencing and gates will be required around the new treatment plant controls system, blowers, electrical generator, and package storage shed (exist treatment plant location) as indicated in Addendum No. 1.

Attachment D

Questions Submitted After Pre-Bid Meeting

PROJECT: Sewage Treatment Plant Improvements at Kupuna Home O`Waiialua

CONTRACTORS PRE BID CLARIFICATIONS QUESTIONS:

Hawaiian Dredging, Dated January 7, 2009:

1. Why are the Pump Control Separate from the pumps?

Response: The controls are to be located inside the existing sewage treatment plant fencing for security reasons.

2. Finish backfill for Aerobic Treatment Unit (Det. 1-2/S-4) shows a 12" thick layer of low Permeability Fill while Finish backfill for SMH (Det. 1/C-4) and Duplex Sewage Lift Station (Det. 1/C-6) shows a 12" thick layer of Low Permeability Fill and 4" top soil.

A) Please confirm that there is no topsoil over the Low Permeability Fill around the Aerobic Treatment Unit.

Response: Provide 4" thick topsoil over 12" thick layer of low permeability fill around Aerobic Treatment Unit concrete tank similar to backfill details of Lift Station and SMH.

B) Please confirm that the finish backfill for the Septic Tank (Det. 1/C-5) has 4" topsoil but no 12" thick layer of Low Permeability Fill under it.

Response: Provide 4" thick topsoil over backfill. The backfill specifications are to follow installation requirements of septic tank manufacturer.

3. Please provide specification for the 3" Mud Slab under the Aerobic Treatment Unit (Det. 1-2/S-4).

Response: The purpose of mud slab is to protect the exposed subgrade during construction of the Aerobic Treatment Unit concrete tank. Mud slab shall be CLSM with a minimum strength of 150 psi.

4. Sheet C-2 indicated a 6" vents coming out of the Sewage Lift Station while detail 1/C-6 and 4/C-6 shows a 4" vent. Please review and advise the correct size of vent.

Response: The correct vent size is 4".

5. Sheet C-2 indicated a 6" vents coming out of the 4" pipe connecting the Chlorine Tablet Feeder and Aerobic Treatment Unit. Detail 3/C-7 shows a 6" vents. Please confirm that the vent piping coming out of the 4" sewer is a 6" pipe.

Response: There is only one (1) 6" vent coming out between the Aerobic Treatment Unit and the Chlorine Tablet Feeder. The 6" vent shown on Sheet C-2 refers to the "6" vent to atmosphere" shown in Section B-B of Sheet C-7. This 6" vent shall be connected to the effluent spillover piping and shall terminate above-ground inside the corner of the chain-link fence as shown in Sheet C-2. Vent pipe material shall be ductile iron.

6. Vent Detail 4/C-6 and 3/C-7 show the pipe material as Ductile Iron.

A) Is the 6" effluent spillover (Det. 1/C-7) piping material made of Ductile Iron?

Response: 6" effluent spillover coming out of Aerobic Treatment Unit shall be ductile iron including 6" vent to atmosphere. The 4" sewer piping downstream of the 6 x 6 x 4 tee shall be PVC.

B) Is the 4" vent coming out of the Sewage Lift Station made of Ductile Iron?

Response: Yes.

C) Is the 6" vent piping coming out of the 4" PVC pipe between Chlorine Tablet Feeder and Aerobic Treatment Unit made of Ductile Iron?

Response: Yes. See response from 6A.

7. Please confirm that 2-1/2" air piping in the Aerobic Treatment Unit out to the Cross as shown on the Plan view on Sheet C-7 is made of Galvanized Schedule 40.

Response: Yes, 2-1/2" air piping from Aerobic Treatment Unit out to the cross is Galvanized Schedule 40 air piping.

8. Please confirm that the 2-1/2" piping from the Cross as mentioned in question 7 to the blower (Det. 1/C-8) are made of 316 Stainless Steel?

Response: Yes, 2-1/2" air piping from the cross to the blowers shown in Sheet C-8 are to be 316 Stainless Steel.

9. Please confirm that the 4" Inlet pipe to the Aerobic Treatment Unit shown on Sheet C-7 (Inlet Detail) is made of PVC?

Response: Inlet piping of Aerobic Treatment Unit shall be HDPE, or other material approved by Aerobic Treatment Unit manufacturer.

Hawaiian Dredging, Dated January 8, 2009:

1. To construct the new Leach Field, the existing irrigation will be removed. Is the contractor responsible to install it back in place once the leach field is completed?

Response: Irrigation lines in the new leach field area should be abandoned. Contractor shall remove any necessary irrigation lines needed to construct new leach field.

2. Please provide dimension of the Generator Support Rail shown on Detail 1/S-5.

Response: The size of the generator support rail indicated on 1/S-5 is dependent on the generator manufacturer selected.

3. Can we use native material to backfill the Septic Tank?

Response: Native material may potentially be used as backfill if native material meets backfill specifications of selected septic tank manufacturer.

4. On Detail 1/C-6, what type of material are the fittings connecting to the 2" PVC gate valves? PVC or HDPE?

Response: Contractor may use either PVC or HDPE.

HPHA, Dated January 8, 2009:

1. Will exposed tree roots get sprayed with herbicide when exposed during tree removal?

Response: Contractor shall herbicide all exposed tree roots of trees indicted to be removed during the demolition/clear and grubbing portion of the project. Contractor shall also herbicide and/or remove all new tree shoots from the project area during the 1-year warranty period of the project.